

Apparatus claim 12 recites an error model memory for storing error models and a processing unit for selecting an error model as a function of a defined selection standard and applying the selected error model to the received navigation signals with a further device transmitting the error information to the system or the user or both.

Claims 1-12 and 14-20 have been rejected under 35 U.S.C. § 103 as unpatentable over Chen in view of any one of Eid, Jouan and Whang as detailed at item 2 on pages 2 and 3 of the patent Office Action. The reference to Chen has been cited for disclosing a plurality of receiving units and evaluating the received navigation signals. According to the rejection "Chen fails to disclose selecting one of the plurality of error models as a function of at least one defined selection standard". The secondary references to Eid, Jouan and Whang are cited for providing the selected of one of a plurality of error models where the selected is based on a known variant as related to Chen. The reference to Jouan has been cited for selecting among model outputs, which will perform reasonably. The rejection indicates that it would have been obvious to use a multiple model that selects among model outputs in place of the determination of the Chen. The reference to Whang discloses, according to the Examiner, the selecting of multiple models to produce a more accurate output with the Examiner concluding that it would be obvious to use multiple models with Chen.

Applicants' respectfully submit that the present invention, as defined by independent claims 1 and 12, provides method steps and structure limitations not shown or disclosed or made obvious by the references or any obvious combination of the references to one of ordinary skill in the art.

The reference to Chen concerns multiple model carrier phase differential GPS systems which provide a combination of different system error models. As indicated in the Office Action, there is no showing of selecting one of the plurality of error models as function of a defined selection standard.

The secondary reference to Eid (U.S. Patent No.: 6,502,042) concerns a fault tolerant liquid measuring system with a plurality of sensors for measuring parameters of liquid in a container. Eid, at column 19, line 66, describes the use

of a multiple model estimator architecture, which is not equivalent to selecting one of a plurality of error models as a function of at least one defined selection standard. There is no description of a plurality of error models, but only models for estimating signals representative of measurement signals, as disclosed at page 1, lines 8-10 of the Abstract. It is submitted that these are models for estimating a signals representative of measured signals and not "error models" and certainly there is no description of the required selection by defined selection standard of one of the models.

The references to Jouan and Whang are submitted as not being related to determining the problem of estimated navigation signal error information, but to an area concern with the tracking of maneuvering target. Additionally, Jouan and Whang do not have any consideration of a plurality of error models but only models for the target trajectories (Jouan: page 247, line 7 of the Abstract and Whang, page 1329, line 3 of the Abstract). Therefore, it is submitted that the presently claimed invention is not obvious in view of the references because of the teaching of the references which would not yield any conclusion that one skilled in the art would seek to combine these references or learn from the combination of these references. Additionally, even if it is accepted for purposes of argument, that the references could be combined, Applicants invention does not result from the combination of the references because of the failure of the secondary references to teach the selection of "one of said plurality of error models as a function of at least one defined selection standard" which is a feature of each of independent claims 1 and 12 and the remaining dependent claims 2-11 and 13-20 which depend from and contain all of the limitations of either independent claims 1 or 12.

The attached replacement sheet eliminates the labeling of the Figure as required.

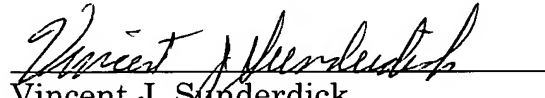
Therefore, in view of the distinguishing features between the claimed invention and the references, which features are not shown or disclosed or made obvious by the references or their combination, Applicants respectfully request that this application containing claims 1-20 be allowed and be passed to issue.

If there are any questions regarding this amendment or the application in general, a telephone call to the undersigned would be appreciated since this should expedite the prosecution of the application for all concerned.

If necessary to effect a timely response, this paper should be considered as a petition for an Extension of Time sufficient to effect a timely response, and please charge any deficiency in fees or credit any overpayments to Deposit Account No. 05-1323 (Docket #010408.52704US).

Respectfully submitted,

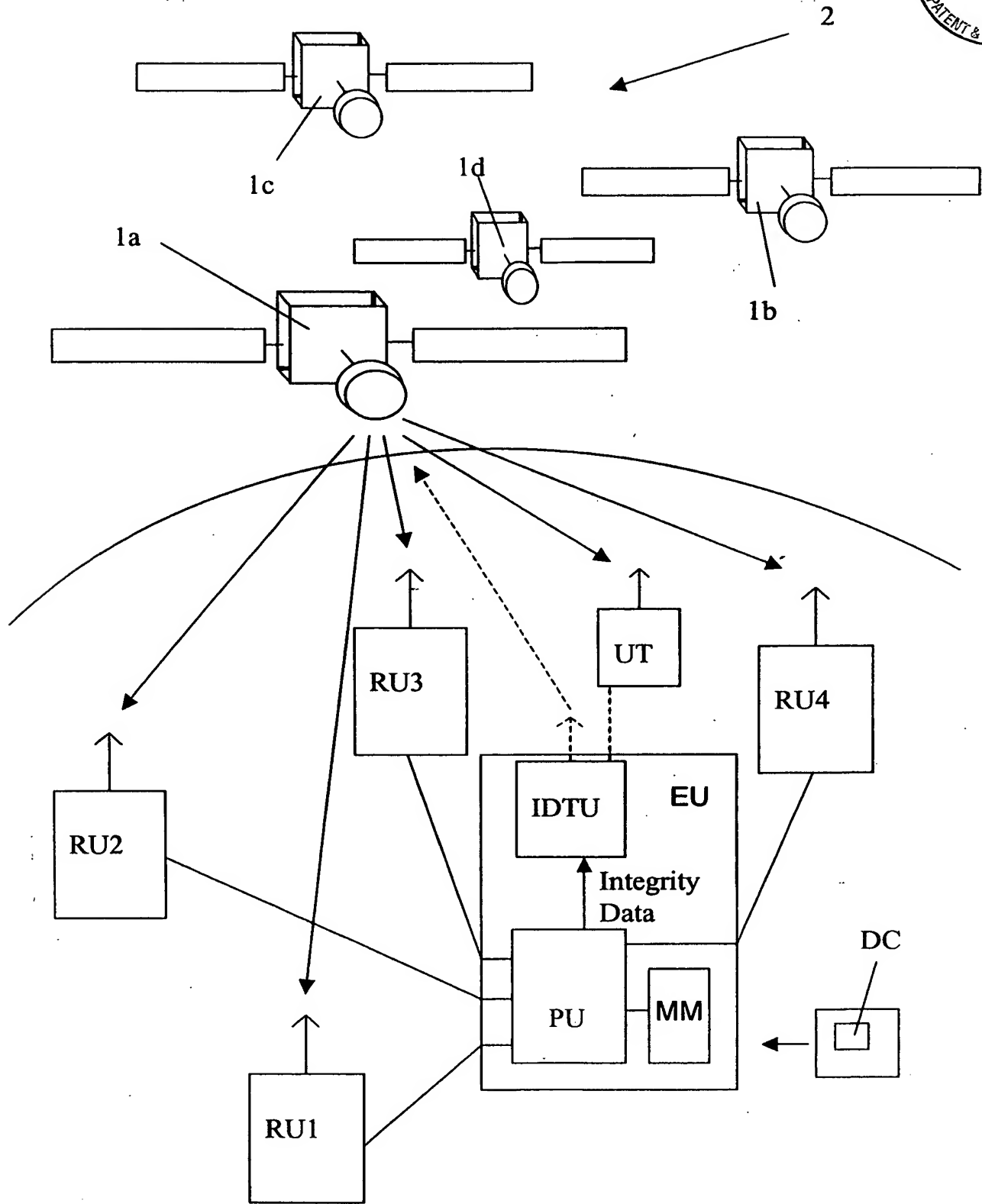
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Enclosures: One (1) sheet of Replacement drawing
One (1) sheet of Annotated drawing showing changes

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~~Fig. 1~~